1904E106

Candidate's Seat No :_____

B.Sc. Sem-6 Examination
CC 310
Computer Science

Time : 2-00 Hours]

April 2022

[Max. Marks : 50

Instructions: All Questions in SECTION 1 carry equal marks.
Attempt any THREE questions in SECTION 1
Question 9 in SECTION II is COMPULSORY

SECTION I

Q-1   **Write the following.**

(A)   What are different types of operating system? Explain them in detail   **(07)**

(B)   Explain the history of operating system.   **(07)**

Q-2   **Write the following.**

(A)   Explain single user and multi user operating system in detail.   **(07)**

(B)   Explain the elements of operating system.   **(07)**

Q-3   **Write the following.**

(A)   What is memory management? Explain contiguous memory allocation in detail.   **(07)**

(B)   Explain segmentation in detail.   **(07)**

Q-4   **Write the following.**

(A)   Explain paging in detail.   **(07)**

(B)   Memory partitions of 100kb,500 kb,200 kb,300kb,600 kb are available how would 7 best, worst, first fit algorithm to place processes 212,417,112,426 in order. Which is the best algorithm?   **(07)**

Q-5   **Write the following.**

(A)   What is CSP and semaphores explain in detail.   **(07)**

(B)   Explain PCB.   **(07)**

Q-6   **Write the following.**

(A)   Explain SJF scheduling algorithm with example.   **(07)**

(B)   Explain IPC in detail.   **(07)**

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Q-7   **Write the following.**

(A)   What is disk scheduling?Explain various disk scheduling algorithm.   **(07)**

(B)   What are the characteristics of device?   **(07)**

Q-8   **Write the following.**

(A)   What are the functions of device management.   **(07)**

(B)   Explain disk space management in detail.   **(07)**

SECTION II

Q-9   **MCQ**   **(08)**

(1) Dual mode of operating system has
A)1 mode   B)2 modes   C)3 modes   D)4 modes

(2) Multi-processor system gives a
A)small system   B)tightly coupled system
C)loosely coupled system   D)both a and b

(3) Logical extension of multiprogramming operating system is
A)time sharing   B)multi-tasking   C)single programing   D)both a and b

(4) Scheduling of threads are done by
A)input   B)output   C)operating system   D)memory

(5) Example of open source operating system is
A)UNIX   B)Linux   C)windows   D)both a and b

(6) One word memory storage is collection of
A)2 bytes   B)4 bytes   C)7 bytes   D)8 bytes

(7) User view of system depends upon the
A)CPU   B)software   C)hardware   D)interface

(8) SCSI system is abbreviation of the
A)small common-system interface
B)small common-system interaction
C)small computer-system interface
D)small computer-system interaction